

AMENDMENT

Please amend the pending application in accordance with the following particulars.

In the Claims

The claims are amended as shown on the following pages under the heading LIST OF CURRENT CLAIMS. The list shows the status of all claims presently in the application and is intended to supersede all prior versions of the claims in the application. Any cancellation of claims is made without prejudice or disclaimer.

LIST OF CURRENT CLAIMS

Claim 1 (Currently Amended). A compressor, containing a compressor element, and comprising: a rotor chamber connected to an inlet pipe and an outlet pipe; a reservoir in communication with the outlet pipe; a pressure regulating system including an inlet valve associated with the inlet pipe; a piston connected to the inlet valve and which is movable in a cylinder to open and close the inlet valve without the use of a spring acting on the piston; a bridge bridging said inlet valve and in which, between the inlet pipe and the rotor chamber, are successively mounted a gas stream limiter and a non-return valve which only admits gas into the rotor chamber; a gas pipe connecting the reservoir to a part of the bridge situated between the gas stream limiter and the non-return valve; and a relief valve associated with said gas pipe, wherein the piston is a double-acting piston which divides the cylinder into first and second closed cylinder chambers; the first cylinder chamber, on a first side of the piston facing away from the inlet valve, is connected to a part of the rotor chamber located near the inlet valve upstream the rotor chamber via a first pipe, wherein the connection is always open; and on a second side of the piston, the second cylinder chamber is connected to a part of the rotor chamber situated near the inlet valve and to the non-return valve via a second pipe.

Claim 2 (Previously Presented). The compressor according to claim 1, wherein the first pipe connecting the first cylinder chamber on the first side which is turned away from the inlet valve to a part of the rotor chamber situated near the inlet valve forms the connection between the piston and the inlet valve.

Claim 3 (Previously Presented). The compressor according to claim 2, wherein the connection between the piston and the inlet valve comprises a stem provided with a duct extending over an entire length of the stem.

Claim 4 (Previously Presented). The compressor according to claim 1, wherein the relief valve comprises a pneumatic valve which is equipped with a spring and which is connected by a pipe which is directly connected to the reservoir and a control line which is also connected to said reservoir via a control valve.

Claim 5 (Previously Presented). The compressor according to claim 4, wherein the control valve is an electromagnetic valve.

Claim 6 (Previously Presented). The compressor according to claim 1, wherein the inlet valve includes a housing forming a common housing with the cylinder.